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sedus

Environmental Product Information

ap-230/7201-M/3110/8002-100/2800/9ER

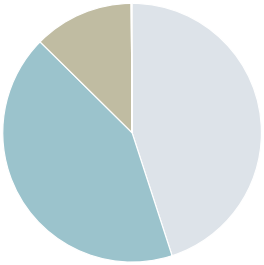
Features

- Backrest with membrane cover
- Armrests made of plastic
- Steel frame not stackable, chromed
- Plastic glides
- Upholstery fabric Era
- 10-year guaranteed repairability
- 5-year guarantee (see Sedus Warranty Terms)

Production

- Covers not glued into place
- CFC-free foams
- Galvanisation with chrome III
- Use of certified upholstery fabrics in accordance with OEKO-TEX Standard 100
- Produced using 100 % green electricity
- Produced in accordance with DIN EN ISO 9001 Quality management
- Produced in accordance with DIN EN ISO 14001 Environmental management
- Produced in accordance with DIN EN ISO 50001 Energy management
- Produced in accordance with DIN ISO 45001 Occupational safety

Materials and proportions



Recycling content/recyclable materials

	kg	%
Recycling content	3.29	36.26
	kg	%
Recycling of materials	4.23	46.68
Thermal recycling	4.84	53.32
Recycling overall		**99 %**

The recycled materials and the recyclability of materials are determined based on data from experts and specialist organisations. When determining recycling values, Sedus uses conservative practice-oriented values and not merely the theoretically possible values. The figures shown include our products' packaging. This fact sheet is checked regularly and may be changed without giving prior notice. The most recent version can be downloaded from our homepage at any time.

Standards/certificates

Sedus has been committed to the principles of sustainable corporate governance of the United Nations Global Compact and its principles in terms of human rights, labour, the environment and anti-corruption since 2017.

WE SUPPORT UN GLOBAL COMPACT

Comprehensive sustainability report: www.sedus.com
The life cycle assessment was prepared in accordance with DIN EN 15804.
Contact: sedustainable@sedus.com

sedus

Statement

We develop products which bring together first-class quality, design, ergonomics, durability as well as ecological and economic standards in a balanced and unmistakable way – perfectly in line with our customers' needs. To this end, we set high standards for each life phase of the product.

We purchase around two thirds of the steel, aluminium and wood which we require to produce our products in Germany and almost all the rest from Europe, this helps us to avoid long delivery routes whilst, at the same time, boosting the local economy. We use materials which have been tested and assessed with respect to potentially adverse effects on human health and the environment.

REACH Regulation

This product contains no substances as per the candidate list of the REACH Regulation, Annex XIV, above the limit value of 0.1% mass percent.

Electrical appliance law

WEEE Reg No. DE 15163456
Electrical components were registered by Sedus or our suppliers as per the Electrical appliance law.

Materials

Composition of the materials used for the model:
ap-230/7201-M/3110/8002-100/2800/9ER
Reference quantity: 1 unit

Metals

	kg	%
Steel	4.01	44.97

45.0 %

Plastics

	kg	%
Polypropylene (PP)	2.90	32.46
PUR foam	0.38	4.27
Polyester fabric	0.43	4.80
Various plastics	<0.10	0.89

42.4 %

Other materials

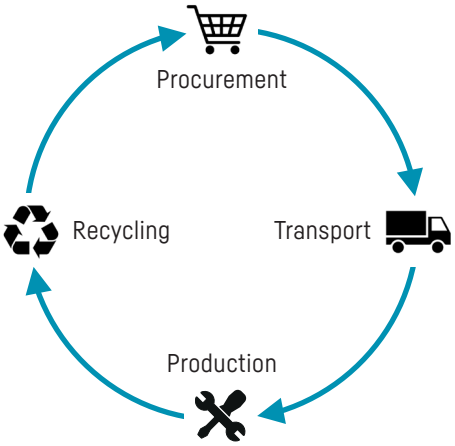
	kg	%
Fibreglass	1.12	12.54
Wood	0.00	0.00
Electronics	0.00	0.00
Various materials	<0.10	0.06

12.6 %

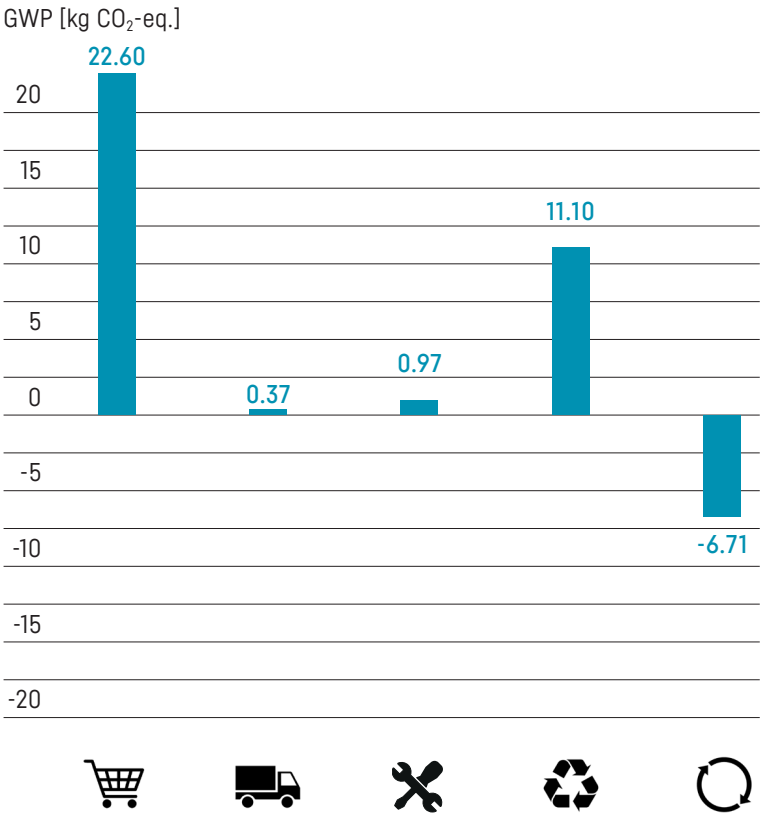
Total weight (without packaging)	**8.92 kg**

Disclaimer: The material list given may not include all the materials used in this product (e.g. adhesives, coatings, residues etc.).

Material cycle



Global warming potential within the product life cycle



Procurement and transport

It is always in Sedus' interest to purchase resources and production means from nearby partners whenever this is economically viable. Communication is easier, there are no customs duties or currency risks and shorter shipping routes are less harmful for the environment. That's why, our most important supplier country is Germany followed by other European states. The percentage of deliveries from non-European countries was less than 3 % in 2018. The proximity of the suppliers results in short shipping routes.

Production

Sedus is characterised by its impressive vertical range of manufacture. Key, environmentally relevant processes thus take place in our production facilities which are subject to regular certification.

Waste management and recycling

Sedus works exclusively with certified specialist disposal firms which it audits at regular intervals. It has worked closely with a complete disposer since 2013. We recycle paper, cardboard, plastic, glass, wood and metal at all sites. To avoid waste, the rejection rate during the production process is monitored and continually improved.

Creator of the life cycle assessment

thinkstep AG, Hauptstraße 111-113, 70771 Leinfelden-Echterdingen, Germany

Life cycle

ENVIRONMENTAL IMPACTS	Unit	A1–A3	C3	C4	D
GWP Global warming potential	[kg CO_2-eq.]	2.39E+01	1.11E+01	1.53E-02	-6.71E+00
ODP Ozone depletion potential	[kg CFC-11-eq.]	7.00E-10	1.13E-15	8.39E-17	-6.47E-14
AP Acidification potential	[kg SO_2-eq.]	2.11E-01	9.65E-04	9.70E-05	-9.48E-03
EP Eutrophication potential	[kg PO_4^{3-}-eq.]	6.04E-03	2.24E-04	1.09E-05	-1.09E-03
POCP Photochemical ozone creation potential	[kg ethene-eq.]	1.18E-02	8.71E-05	7.35E-06	-1.06E-03
ADPE Abiotic depletion potential for non fossil resources	[kg Sb-eq.]	4.02E-06	1.41E-08	1.54E-09	-8.78E-07
ADPF Abiotic depletion potential for fossil resources	[MJ]	4.44E+02	1.30E+00	2.16E-01	-8.45E+01

RESOURCE USE	Unit	A1–A3	C3	C4	D
PERE Use of renewable primary energy excluding renewable primary energy resources used as raw materials	[MJ]	7.88E+01	3.95E-01	2.92E-02	-1.84E+01
PERM Use of renewable primary energy resources used as raw materials	[MJ]	1.18E-01	-1.18E-01	0.00E+00	0.00E+00
PERT Total use of renewable primary energy resources	[MJ]	7.89E+01	2.77E-01	2.92E-02	-1.84E+01
PENRE Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials	[MJ]	3.15E+02	1.57E+02	2.23E-01	-1.01E+02
PENRM Use of non renewable primary energy resources used as raw materials	[MJ]	1.55E+02	-1.55E+02	0.00E+00	0.00E+00
PENRT Total use of non renewable primary energy resources	[MJ]	4.70E+02	1.52E+00	2.23E-01	-1.01E+02
SM Use of secondary material	[kg]	3.20E+00	0.00E+00	0.00E+00	0.00E+00
RSF Use of renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF Use of non renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW Use of net fresh water	[m^3]	1.51E-01	2.41E-02	5.62E-05	-2.39E-02

OUTPUT FLOWS AND WASTE CATEGORIES	Unit	A1–A3	C3	C4	D
HWD Hazardous waste disposed	[kg]	4.11E-07	1.00E-09	3.40E-09	-4.57E-08
NHWD Non hazardous waste disposed	[kg]	2.20E+00	4.63E-02	1.12E+00	-6.39E-02
RWD Radioactive waste disposed	[kg]	9.43E-03	8.49E-05	2.54E-06	-6.53E-03
CRU Components for re-use	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR Materials for recycling	[kg]	0.00E+00	8.11E-01	0.00E+00	0.00E+00
MER Materials for energy recovery	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE Exported electrical energy	[MJ]	0.00E+00	2.26E+01	0.00E+00	0.00E+00
EET Exported thermal energy	[MJ]	0.00E+00	4.01E+01	0.00E+00	0.00E+00

LEED® V4.1 Contributions*

BD+C BUILDING DESIGN AND CONSTRUCTION

Credit		Contribution
MR Credit Building Product Disclosure and Optimization – Environmental Product Declarations	**Option 1** Environmental Product Declaration (1 point)	An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.
MR Credit Building Product Disclosure and Optimization – Sourcing of Raw Materials	Responsible Sourcing of Raw Materials (1–2 points)	The percentage of the recycled material is indicated on the corresponding EPI on page 1.
MR Credit Furniture and Medical Furnishings	**Option 1** Minimal Chemical Content **Option 3** Multi-Attribute Assessment of Products (1–2 points)	**Option 1** The product contains no or less than 100 ppm of urea formaldehyde, hexavalent chromium, heavy metals, PFCs or PFOA, or added antimicrobial treatments. **Option 3** An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.
MR Prerequisite Construction and Demolition Waste Management Planning	Develop and implement a construction and demolition waste management plan.	Almost entirely recyclable or reusable transport packaging is used. Disused products are taken back by agreement. The products can be efficiently recycled thanks to easily dismantled components with material identification.
EQ Credit Low-Emitting Materials	Furniture (1–3 points)	A greenguard certificate is available for this product.

ID+C INTERIOR DESIGN AND CONSTRUCTION

Credit		Contribution
MR Credit Interiors Life-Cycle Impact Reduction	**Option 2** Furniture Reuse (1 point) **Option 3** Design for Flexibility (1–2 points)	**Option 2** Sedus products are designed for a long lifetime. They can be reused for several years after a removal or change of space. **Option 3** The Sedus product consists of reconfigurable modules or components so that it can be adapted to new room requirements.
MR Credit Building Product Disclosure and Optimization – Environmental Product Declarations	**Option 1** Environmental Product Declaration (1 point)	An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.
MR Credit Building Product Disclosure and Optimization – Sourcing of Raw Materials	Responsible Sourcing of Raw Materials (1–2 points)	The percentage of the recycled material is indicated on the corresponding EPI on page 1.
MR Prerequisite Construction and Demolition Waste Management Planning	Develop and implement a construction and demolition waste management plan.	Almost entirely recyclable or reusable transport packaging is used. Disused products are taken back by agreement. The products can be efficiently recycled thanks to easily dismantled components with material identification.
EQ Credit Low-Emitting Materials	Furniture (1–3 points)	A greenguard certificate is available for this product.
EQ Credit Quality Views	Give building occupants a connection to the natural outdoor environment by providing quality views (1 point)	The meaningful dimensioning of Sedus products can help to ensure quality views with the help of appropriate spatial planning.

O+M BUILDING OPERATIONS AND MAINTENANCE

Credit		Contribution
MR Credit Purchasing	**Option 2** Building Materials (1–2 points)	An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.

* Potentially possible contribution assessed on the basis of the relevant LEED® V4.1 rating systems.
The contribution may vary depending on the actual rating criteria used and the individual product configuration.

Source: www.usgbc.org

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